DUCTLESS SPLIT SYSTEM AIR CONDITIONER SCHEDULE

MARK	LOCATION	TOTAL COOLING CAPACITY M.B.H.	COIL E.A.T.		FAN DATA			ELECTRIC DATA INDOOR UNIT				ELECTRIC DATA OUTDOOR UNIT				REMARKS
			°F D.B.	°F W.B.	SUPPLY AIR C.F.M.	E.S.P. (IN. WG.)	MOTOR H.P.	M.C.A.	M.O.C.P.	VOLTS	PHASE	M.C.A.	M.O.C.P.	VOLTS	PHASE	
DSS-1	124	30.0	80	67	1160	0.5	1/10	1.2	15	208	1	16.3	25	208	1	SEE NOTES

NOTES:
1. SELECTIONS BASED ON EMI.
2. COOLING CAPACITY BASED ON 95° F AMBIENT.
3. PROVIDE INDOOR UNIT WITH COIL FREEZE PROTECTION, REMOTE MOUNTED THERMOSTAT, AND INTEGRAL CONDENSATE PUMP.
4. PROVIDE OUTDOOR UNIT WITH LOW AMBIENT CONTROL.

GRILLE, REGISTER & DIFFUSER SCHEDULE

TAG	TYPE	SERVICE	C.F.M. RANGE	NECK SIZE	MAX. P.D.	MANUFACTURER/ MODEL NO.	REMARKS
A	CEILING DIFFUSER	SUPPLY	0-120	6"	0.03	OMNI-AA	24x24 CONICAL DIFFUSER SUITABLE FOR LAYIN CEILING, WITH OPPOSED BLADE DAMPER
B	CEILING DIFFUSER	SUPPLY	125-210	8"	0.02	OMNI-AA	24x24 CONICAL DIFFUSER SUITABLE FOR LAYIN CEILING, WITH OPPOSED BLADE DAMPER
C	CEILING DIFFUSER	SUPPLY	215-350	10"	0.05	OMNI-AA	24x24 CONICAL DIFFUSER SUITABLE FOR LAYIN CEILING, WITH OPPOSED BLADE DAMPER
D	CEILING DIFFUSER	SUPPLY	355-550	12"	0.08	OMNI-AA	24x24 CONICAL DIFFUSER SUITABLE FOR LAYIN CEILING, WITH OPPOSED BLADE DAMPER
E	GRILLE	SUPPLY	300-330	12x8	0.1	272FS	DOUBLE DEFLECTION, 3/4" SPACING, WITH OPPOSED BLADE DAMPER
Z	GRILLE	RETURN	0-1200	22X24	0.035	355FL	24x24 LOUVERED RETURN 1/2" SPACING, SUITABLE FOR LAYIN CEILING

THE FOLLOWING NOTES ARE TYPICAL UNLESS OTHERWISE NOTED:
1. SELECTIONS BASED ON TITUS.
2. PROVIDE ALUMINUM DIFFUSERS AND REGISTERS WITH OPPOSED BLADE VOLUME DAMPERS, BAKED OFF-WHITE ENAMEL FINISH (INCLUDING HEAD OF SCREWS), MAXIMUM NC=25 AT HIGHEST CFM AND PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED.
3. PROVIDE 4-WAY PATTERN CEILING DIFFUSERS, U.O.N. ON PLANS OR SCHEDULE.
4. MAXIMUM PRESSURE DROP SHALL INCLUDE VOLUME DAMPER WHERE DAMPER IS PROVIDED.

FAN SCHEDULE

TAG	LOCATION	FAN TYPE	C.F.M.	E.S.P. (IN. WG.)	DRIVE	H.P.	VOLTS	PHASE	MODEL NO.	REMARKS
EF-1	ROOF	UTILITY SET	980	0.5	BELT	1/3	115	1	CPA	1, 3
EF-2	ROOF	UTILITY SET	980	0.5	BELT	1/3	115	1	CPA	1, 3
EF-3	ROOF	UTILITY SET	1290	0.5	BELT	1/2	115	1	CPA	1, 3
EF-4	ROOF	UTILITY SET	980	0.5	BELT	1/3	115	1	CPA	1, 3
EF-5	ROOF	UTILITY SET	650	0.5	BELT	1/2	115	1	CPA	1, 3
EF-6	ROOF	UTILITY SET	980	0.5	BELT	1/3	115	1	CPA	1, 3
EF-7	NOT USED									
EF-8	NOT USED									
EF-9	ROOF	CENTRIFUGAL	450	0.5	DIRECT	1/8	115	1	ACE-D	1, 2, 4
EF-10	ROOF	CENTRIFUGAL	75	0.5	DIRECT	1/25	115	1	ACE-D	1, 2, 4
EF-11	ROOF	CENTRIFUGAL	440	0.5	DIRECT	1/8	115	1	ACE-D	1, 2, 4
EF-12	ROOF	CENTRIFUGAL	135	0.5	DIRECT	1/20	115	1	ACE-D	1, 2, 4
EF-13	ROOF	CENTRIFUGAL	1290	0.5	BELT	1/2	115	1	CPA	1, 3
EF-14	ROOF	CENTRIFUGAL	1290	0.5	BELT	1/2	115	1	CPA	1, 3
SF-1	ROOF	CENTRIFUGAL	440	0.5	DIRECT	1/3	115	1	CPFD	1, 3
SF-2	ROOF	CENTRIFUGAL	610	0.5	DIRECT	1/4	115	1	CPFD	1, 3
SF-3	ROOF	CENTRIFUGAL	610	0.5	DIRECT	1/4	115	1	CPFD	1, 3
SF-4	ROOF	CENTRIFUGAL	515	0.5	DIRECT	1/4	115	1	CPFD	1, 3
SF-5	ROOF	CENTRIFUGAL	430	0.5	DIRECT	1/3	115	1	CPFD	1, 3
SF-6	ROOF	CENTRIFUGAL	345	0.5	DIRECT	1/6	115	1	CPFD	1, 3

NOTES:
1. SELECTIONS BASED ON COOK.
2. PROVIDE DIRECT DRIVE FANS WITH ELECTRONIC SPEED CONTROLLER.
3. PROVIDE UTILITY SET FANS WITH DISCONNECT AND MANUFACTURER'S ROOF MOUNTING BRACKET.
4. PROVIDE ROOFTOP CENTRIFUGAL FANS WITH CHATTERPROOF BACKDRAFT DAMPER, INTEGRAL ELECTRICAL DISCONNECT, ALUMINUM CONSTRUCTION, REMOVABLE DOME, BIRDSCREEN AND MANUFACTURER'S ROOF CURB.

SHUT OFF V.A.V. TERMINAL BOX SCHEDULE (HOT WATER)

TAG	INLET SIZE (IN.)	VOL. REG. C.F.M. MIN.	VOL. REG. C.F.M. MAX.	MAX INLET S.P. (IN. WG.)	HEATING COIL M.B.H.	HEATING COIL G.P.M.	HEATING COIL W.P.D. (FT. WG.)	HEATING COIL A.P.D. (IN. WG.)	MAXIMUM SOUND RATING (NC)	REMARKS
VAV-2	8"	200	660	0.4	10.7	0.72	–	–	–	4
VAV-4	6"	125	410	0.6	6.7	0.44	–	–	–	4
VAV-5	6"	55	170	0.4	2.8	0.18	–	–	–	4
VAV-6	6"	100	330	0.4	5.4	0.36	–	–	–	4
VAV-8	6"	210	690	0.4	11.2	0.75			–	4
VAV-9	6"	135	450	0.5	7.3	0.49	–	–	–	4
VAV-10	8"	135	450	0.5	7.3	0.49	–	–	–	4
VAV-11	8"	210	690	0.5	11.2	0.75	–	–	–	4
VAV-12	6"	145	480	0.5	7.8	0.52	–	–	–	4
VAV-13	6"	145	480	0.5	7.8	0.52	–	–	–	4
VAV-14	6"	85	270	0.3	4.4	0.29	–	–	–	4
VAV-17	5"	45	135	0.4	2.2	0.15	–	–	–	4
VAV-18	6"	100	330	0.5	5.4	0.36	–	–	–	4
VAV-19	6"	100	330	0.6	5.4	0.36	–	–	–	4
VAV-20	8"	510	1700	0.5	27.7	1.84	–	–	–	4
VAV-21	10"	650	2160	0.5	35.2	2.34	–	–	–	4
VAV-22	6"	100	320	0.4	5.2	0.35	–	–	–	4
VAV-23	14"	660	2190	0.5	35.6	2.38	–	–	–	4
VAV-24	12"	345	1135	0.5	18.5	1.23	–	–	–	4
VAV-26	12"	730	2430	0.5	39.5	2.64	–	–	–	4
VAV-1B	10"	320	1060	0.4	17.3	1.15	–	–	–	4
VAV-2B	10"	290	960	0.4	15.6	1.04	–	–	–	4
VAV-4B	10"	240	800	0.2	13.0	0.87	–	–	–	4
VAV-5B	8"	195	640	0.2	10.4	0.69	–	–	–	4
VAV-6B	8"	170	565	0.3	9.2	0.61	–	–	–	4
VAV-7B	4"	30	85	0.1	1.4	0.09	–	–	–	4
VAV-8B	5"	205	680	0.2	11.1	0.74	–	–	–	4
VAV-9B	10"	280	920	0.3	15.0	1.00	–	–	–	4
VAV-10B	8"	125	415	0.2	6.8	0.45	–	–	–	4
VAV-12B	5"	110	360	0.2	5.9	0.39	–	–	–	4
⚠1 VAV-13B	10"	175	580	0.4	9.4	0.63	–	–	–	4
VAV-14B	10"	180	600	0.4	9.8	0.65	–	–	–	4
VAV-15B	4"	60	185	0.1	3.0	0.20	–	–	–	4
VAV-18B	4"	60	185	0.1	3.0	0.20	–	–	–	4
VAV-20B	4"	115	370	0.1	6.0	0.40	–	–	–	4
VAV-21B	8"	220	720	0.4	11.7	0.78	–	–	–	4
VAV-22B	5"	75	240	0.1	3.9	0.26	–	–	–	4
VAV-23B	12"	420	1395	0.4	22.7	1.51	–	–	–	4
VAV-24B	8"	315	1045	0.3	17.0	1.13	–	–	–	4
VAV-27B	6"	70	230	0.1	3.7	0.25	–	–	–	4
VAV-28B	6"	85	275	0.1	4.5	0.30	–	–	–	4
VAV-39B	6"	145	480	0.2	7.8	0.52	–	–	–	4
VAV-1N	8"	210	700	0.4	11.4	0.76	1.4	0.26	35	1, 2, 3
VAV-2N	8"	165	545	0.4	8.9	0.59	0.9	0.16	35	1, 2, 3
VAV-3N	8"	255	845	0.4	13.8	0.92	1.3	0.23	35	1, 2, 3
VAV-4N	10"	345	1135	0.4	18.5	1.23	4.5	0.29	35	1, 2, 3
VAV-5N	6"	95	305	0.4	5.0	0.33	0.6	0.12	35	1, 2, 3
VAV-6N	6"	120	395	0.4	6.4	0.43	0.7	0.14	35	1, 2, 3
VAV-7N	6"	120	395	0.4	6.4	0.43	0.7	0.14	35	1, 2, 3
⚠2 VAV-8N	8"	170	560	0.4	9.1	0.61	0.8	0.15	35	1, 2, 3
VAV-9N	8"	165	535	0.4	8.7	0.58	0.8	0.15	35	1, 2, 3

NOTES:
1. HEATING COIL SELECTION BASED ON 55°F E.A.T. AT 50% OF MAX. AIRFLOW.
2. SELECT UNITS FOR MAXIMUM NOISE CRITERIA OF 35.
3. SELECTIONS BASED ON TRANE.
4. EXISTING VAV TO BE REUSED.

DUCT HEATING COIL SCHEDULE - HOT WATER

TAG	SERVICES	C.F.M.	M.B.H.	AIR TEMP (°F) E.A.T.	AIR TEMP (°F) L.A.T.	GPM	E.W.T. (°F)	MAX. PD (FT WG)	MAX APD (IN WG)	NOMINAL SIZE (HXW)
HWC-1	SF-1	440	24.2	17	68	1.6	180	.93	.13	12x10
HWC-2	SF-2	610	33.6	17	68	2.3	180	1.7	.17	12x12
HWC-3	SF-3	515	28.4	17	68	1.9	180	.4	.25	12x12
HWC-4	SF-4	515	28.4	17	68	1.9	180	.4	.25	12x12
HWC-5	SF-6	430	23.7	17	68	1.6	180	.93	.13	12x10
HWC-6	SF-7	345	19	17	68	1.3	180	1.6	.25	9x8

NOTES:
1. PROVIDE WITH DUCT FLANGES.

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	WATTS	VOLTS	PHASE	NO. OF STEPS	B.T.U.H.	NOMINAL C.F.M.	REMARKS
EUH-1	1500	208	1	1	5120	175	1, 2, 3
EUH-2	1500	208	1	1	5120	175	1, 2, 3
EUH-3	1500	208	1	1	5120	175	1, 2, 3
EUH-4	1500	208	1	1	5120	175	1, 2, 3
EUH-5	1500	208	1	1	5120	175	1, 2, 3
EUH-6	1500	208	1	1	5120	175	1, 2, 3
EUH-7	1500	208	1	1	5120	175	1, 2, 3
EUH-8	1500	208	1	1	5120	175	1, 2, 3
EUH-9	1875	208	1	1	6400	275	1, 2, 4
EUH-10	1875	208	1	1	6400	275	1, 2, 4

NOTES:
1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT, INTEGRAL ELECTRICAL DISCONNECT AND BLOWER.
2. SELECTION BASED ON MARKEL.
3. PROVIDE UNIT HEATER SUITABLE FOR RECESSED SURFACE MOUNTING.

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WARSAW CAMPUS
MECHANICAL SCHEDULES

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⚠1	FEBRUARY 9, 2010
⚠2	MARCH 3, 2010

COMMONWEALTH OF VIRGINIA
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